

**House Study Bill 111 - Introduced**

HOUSE FILE \_\_\_\_\_

BY (PROPOSED COMMITTEE ON  
INFORMATION TECHNOLOGY BILL  
BY CHAIRPERSON LOHSE)

**A BILL FOR**

1 An Act relating to the office of the chief information officer,  
2 including procurement preferences and a report detailing  
3 state information technology assets.  
4 BE IT ENACTED BY THE GENERAL ASSEMBLY OF THE STATE OF IOWA:

1 Section 1. Section 8B.1, Code 2021, is amended by adding the  
2 following new subsection:

3 NEW SUBSECTION. 2A. *"Cloud computing"* means the same as  
4 defined in the United States national institute of standards  
5 and technology's special publication 800-145.

6 Sec. 2. Section 8B.9, subsection 6, Code 2021, is amended  
7 to read as follows:

8 6. Beginning October 1, 2019, a quarterly report regarding  
9 the status of technology upgrades or enhancements for state  
10 agencies, submitted to the general assembly and to the  
11 chairpersons and ranking members of the senate and house  
12 committees on appropriations. The quarterly report shall  
13 also include a listing of state agencies coordinating or  
14 working with the office, ~~and~~ a listing of state agencies not  
15 coordinating or working with the office, ~~and the information~~  
16 required by section 8B.24, subsection 5A, paragraph "b".

17 Sec. 3. Section 8B.24, Code 2021, is amended by adding the  
18 following new subsection:

19 NEW SUBSECTION. 5A. a. The office shall, when feasible,  
20 procure from providers that meet or exceed applicable state  
21 and federal laws, regulations, and standards for information  
22 technology, third-party cloud computing solutions and other  
23 information technology and related services that are not hosted  
24 on premises by the state.

25 b. If the office determines it is not feasible to procure  
26 third-party cloud computing solutions or other information  
27 technology and related services pursuant to paragraph "a", and  
28 if on-premises technology upgrades or new applications to be  
29 housed on-premises are proposed, the office shall include all  
30 of the following in the report required pursuant to section  
31 8B.9, subsection 6:

32 (1) An explanation as to why a cloud computing deployment  
33 was not feasible.

34 (2) Whether the application can be deployed using a hybrid  
35 or containerized approach to minimize on-premise costs.

1 (3) Compliance frameworks that require the application to  
2 be hosted on-premises.

3 c. The office shall contract with multiple third-party  
4 commercial cloud computing service providers.

5 d. The control and ownership of state data stored with cloud  
6 computing service providers shall remain with the state. The  
7 office shall ensure the portability of state data stored with  
8 cloud computing service providers.

9 Sec. 4. Section 8B.24, subsection 6, Code 2021, is amended  
10 to read as follows:

11 6. The office shall adopt rules pursuant to [chapter 17A](#) to  
12 implement the procurement methods and procedures provided for  
13 in subsections 2 through 5 [5A](#).

14 Sec. 5. INVENTORY OF INFORMATION TECHNOLOGY ASSETS, CURRENT  
15 CLOUD COMPUTING ADOPTION, AND CLOUD COMPUTING MIGRATION PLAN  
16 — REPORT. By November 1, 2021, the office of the chief  
17 information officer, in collaboration with other state agencies  
18 and departments, shall provide a report to the general assembly  
19 that includes all of the following:

20 1. An inventory of all state information technology  
21 applications, and the percentage of the information technology  
22 applications that are cloud-based applications.

23 2. Recommendations regarding state information technology  
24 applications that should migrate to cloud-based applications.  
25 Each such recommendation shall include a description of  
26 workloads and information technology applications that are best  
27 suited to migrate to cloud-based applications given all of the  
28 following considerations:

29 a. Whether the information technology application has  
30 underlying storage, networks, or infrastructure that supports  
31 another information technology application, and whether the  
32 information technology application is supported by another  
33 information technology application.

34 b. How critical the information technology application is  
35 to the mission of the state agency or department.

1 c. The difficulty of migrating the information technology  
2 application to a cloud-based application.

3 d. The total cost of ownership of the target environment in  
4 which the information technology application shall operate if  
5 migrated to a cloud-based application.

6 EXPLANATION

7 The inclusion of this explanation does not constitute agreement with  
8 the explanation's substance by the members of the general assembly.

9 This bill relates to the office of the chief information  
10 officer, including procurement preferences and a report  
11 detailing state information technology assets.

12 The bill defines "cloud computing" by reference to the  
13 United States national institute of standards and technology's  
14 special publication 800-145, which defines the term as a model  
15 for enabling ubiquitous, convenient, on-demand network access  
16 to a shared pool of configurable computing resources that can  
17 be rapidly provisioned and released with minimal management  
18 effort or service provider interaction.

19 Current law requires the office to submit a quarterly report  
20 regarding the status of technology upgrades or enhancements for  
21 state agencies. The bill requires this report to also include  
22 information related to the office's determination that it was  
23 not feasible to procure a cloud computing solution, including  
24 an explanation as to why a cloud computing deployment was not  
25 feasible, whether the application can be deployed using a  
26 hybrid or containerized approach to minimize on-premise costs,  
27 and compliance frameworks that require the application to be  
28 hosted on-premises.

29 The bill requires the office to, when feasible, procure  
30 third-party cloud computing solutions and other information  
31 technology and related services that are not hosted on premises  
32 by the state from providers that meet or exceed applicable  
33 state and federal laws, regulations, and standards for  
34 information technology.

35 The bill provides the office shall contract with multiple

1 third-party commercial cloud computing service providers.

2 The bill establishes that control and ownership of state  
3 data stored with cloud computing service providers shall remain  
4 with the state. The bill requires the office to ensure the  
5 portability of state data stored with cloud computing service  
6 providers.

7 The bill requires the office to provide a report to the  
8 general assembly by November 1, 2021, that includes an  
9 inventory of all state information technology applications,  
10 and recommendations regarding state information technology  
11 applications that should migrate to cloud-based applications.